CLAIMS

A sea surface anterna comprising a tube of metallic material, the tube having a substantially longitudinal slot coupled at or near its midpoint to a feed line, the slot being bridged by two pluralities of capacitances to either side of the feedpoint, each plurality being distributed along a respective part of the slot, the antenna being dimensioned so as to operate in an evanescent mode at a resonant frequency less than the cut-off frequency.

- 2. An antenna according to claim 1 wherein the slot is shorted at each end.
- A sea surface antenna comprising a tube of metallic material on a dielectric former, the tube having a longitudinal slot coupled at or near its midpoint to a feed line, the slot being bridged by two pluralities of capacitances to either side of the feedpoint, each plurality being distributed along a respective part of the slot, the length of the antenna being less than 0.25λ and the diameter of the antenna being less than 0.02λ , where λ is the free space wavelength at the operating frequency, the antenna being dimensioned so as to operate in an evanescent mode at a resonant frequency less than the cut-off frequency.
- 4. An antenna according to claim 2 wherein the slot is shorted at each end.
- 5. An antenna according to claim 4 wherein the capacitances are provided by variator diodes, the antenna including means for applying a variable bias to the variator diodes.
- A sea surface antenna arrangement including two or more like antennas according to claim placed in a colinear configuration and connected electrically in parallel.

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